

Luigi Lomasto

Curriculum Vitae

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Education

- 2023–present **PhD in Computer Science**, *University of Salerno*, Italy.
- 2014–2016 **MSc in Computer Science – Data and Knowledge Management**, *University of Salerno*, Italy.
- 2009–2013 **BSc in Computer Science**, *University of Salerno*, Italy.

Publications

Journal Articles

- 2026 **Lomasto L.**, Lettieri N., Malandrino D., Mosca V., Zaccagnino R. - *Modeling Emotional Signatures to Detect Conspiratorial Communities on Social Media*. **Neural Computing & Applications** (Q1).
- 2025 Zaccagnino R., Lettieri N., Malandrino D., **Lomasto L.**, Camoia A., Guarino A. - *Turning AI into a regulatory sandbox: exploring information disorder mitigation strategies with ABM and deep reinforcement learning*. **Neural Computing & Applications** (Q1).
- 2023 Gaeta A., Loia V., **Lomasto L.**, Orciuoli F. - *A novel approach based on rough set theory for analyzing information disorder*. **Applied Intelligence** (Q2).
- 2021 Abbruzzese R., Gaeta A., Loia V., **Lomasto L.**, Orciuoli F. - *Detecting influential news in online communities: an approach based on hexagons of opposition generated by three-way decisions and probabilistic rough sets*. **Information Sciences** (Q1).

Conference Proceedings

- 2025 Lettieri N., Zaccagnino R., Malandrino D., **Lomasto L.**, Buccella I. - *Nets of Fairness. Graph-Based Inference and Visualization to Delve into Gig Workers' Conditions*. International Conference on Information Visualisation (IV).
- 2025 **Lomasto L.**, Lettieri N., Malandrino D., Mosca V., Zaccagnino R. - *Unveiling Emotional Signature in Conspiracy Topics on Social Media Through Vector Analysis*. International Conference on Applications of Natural Language to Information Systems (NLDB).
- 2024 **Lomasto L.**, Aurucci R., Brandi Y., Gajewski L., Lettieri N., Malandrino D. - *Sentiment Impact on Fake News Detection: A Preliminary Study*. International Conference on Information Processing and Management of Uncertainty (IPMU).
- 2024 Botticelli C., De Prisco R., Lettieri N., **Lomasto L.**, Malandrino D. - *Visual music perception for stochastic music composition*. International Conference on Information Visualisation (IV).
- 2022 Capuano N., **Lomasto L.**, Pozzi A., Toti D. - *Natural Language Understanding for the Recommendation of Learning Resources Within Student Collaboration Tools*. The Learning Ideas Conference.
- 2021 Rossi D., Ströele V., Braga R., Caballé S., Capuano N., Campos F., Dantas M. A. R., **Lomasto L.** - *CAERS: A Conversational Agent for Intervention in MOOCs' Learning Processes*. The Learning Ideas Conference.

- 2019 Ciapetti A., Di Florio R., **Lomasto L.**, Miscione G., Ruggiero G., Toti D. - *NETHIC: A System for Automatic Text Classification using Neural Networks and Hierarchical Taxonomies*. International Conference on Enterprise Information Systems (ICEIS).
- 2019 **Lomasto L.**, Di Florio R., Ciapetti A., Miscione G., Ruggiero G., Toti D. - *An automatic text classification method based on hierarchical taxonomies, neural networks and document embedding: the NETHIC tool*. International Conference on Enterprise Information Systems.
- 2018 Costagliola G., Fuccella V., Leo A., **Lomasto L.**, Romano S. - *The design and evaluation of a gestural keyboard for entering programming code on mobile devices*. IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC).

Editorial and Reviewing Activities

Journal

- Reviewer
- Information Sciences (Elsevier - Q1)
 - Applied Intelligence (Springer - Q2)
 - Expert Systems with Applications (Elsevier - Q1)
 - Frontiers in Artificial Intelligence (Frontiers - Q2)

Program

- Committee
- NLDB 2024
 - NLDB 2025

Teaching and Academic Appointments

University of Salerno

- 2023–Present **Teaching Assistant and Academic Appointee (Cultore della Materia)**, *University of Salerno*, Italy, - Teaching Assistant and Academic Appointee – Internet Data Analysis (course). - Teaching Assistant and Academic Appointee – Distributed Programming (course).

LUISS Guido Carli University

- 2023–2024 **Teaching Assistant and Academic Appointee (Cultore della Materia)**, *LUISS Guido Carli University*, Rome, Italy, - Teaching Assistant – Intelligent Machines and Law (course).

Professional Experience

- 2023–2025 **Senior Data Scientist | AI Act Consultant**, *Eustema S.p.A.*, Italy.

- AI Act classification and risk assessment of AI systems
- Trustworthy AI governance and regulatory alignment
- Technical documentation and AI system lifecycle governance

- 2021 **Data Engineer**, *Malwarebytes*, Italy.

- Design of scalable EDR data architecture
- Apache Spark Structured Streaming. Elasticsearch real-time data processing
- AWS (EMR, Redshift, Neptune, S3, SQS)

- 2019–2021 **Machine Learning & NLP Engineer (R&D)**, *Eustema S.p.A.*, Italy.

- Legal-NER and Legal Embeddings (Word2Vec, Doc2Vec, BERT)
- Legal document classification and outcome prediction

- 2017–2019 **Machine Learning Engineer**, *Innovation Engineering*, Rome, Italy.

- Large-scale document classification (NN, SVM, PCA)
- NLP pipelines with Solr, Spark, Docker, microservices

Technical Skills

Programming Python, Java, C/C++, R

AI/ML NLP, Deep Learning, Transformers, BERT, Classification

Big Data Apache Spark, Spark Streaming, Elasticsearch

Cloud AWS (EMR, Redshift, Neptune, S3, SQS)
Databases MySQL, Neo4j, NoSQL
DevOps Docker, Microservices
AI EU AI Act, Risk Assessment, Trustworthy AI Frameworks
Governance